

Special Products

Factor each perfect square trinomial. Always check for the GCF first!

1) $m^2 + 2m + 1$

2) $k^2 + 6k + 9$

3) $r^2 - 4r + 4$

4) $1 - 2n + n^2$

5) $25n^2 + 10n + 1$

6) $4v^2 + 20v + 25$

7) $16v^2 - 24v + 9$

8) $27m^2 + 90m + 75$

9) $45b^2 - 60b + 20$

10) $5x^2 - 40xy + 80y^2$

11) $25m^2 - 10mn + n^2$

12) $9m^2 + 30mn + 25n^2$

Factor each polynomial (Difference of Squares and Perfect Square Trinomials). Always check for the GCF first!

13) $a^2 - 8a + 16$

14) $n^2 - 1$

15) $9a^2 - 4$

16) $25n^2 + 40n + 16$

17) $45n^2 + 150n + 125$

18) $3k^2 - 24k + 48$